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TI - (A C)

DIGITAL SPECTRUM-STABILIZING DEVICE USING NATURAL LOW-ENERGY PEAK AS
REFERENCE SOURCE

AB - (A)

This invention relates to a digitized automatic spectrum-stabilizing device used in ground gamma energy spectrometer. It mainly features that a low-energy peak near 100 KeV in natural gamma spectrum is used as reference peak and the gain of amplifier is controlled by a self-stabilizing circuit, so stabilizing the instrument. The self-stabilizing device comprises numerically controlled gain-variable amplifier, analyzer, frequency divider, reversible counter, latch, interface and PC-1500 pocket computer. Its advantages include no use of radioactive source, so lowering the background of instrument, sufficiently using low-energy information, increasing sensitivity of instrument and dispelling the fear sense of operator to instrument.

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IC - (A)
G01T1/16; G01V5/12
- (C)
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TI - Digital spectrum stabilising device with low energy reference source - has NC gain amplifier, analyser, frequency divider, reversible counter, latch, and pocket computer NoAbstract
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